**NASA-Television Feeds for 2017 Eclipse Coverage**

**NASA TV is on Galaxy-13:**
**NASA Television Channels are digital C-band signals, carried by QPSK/DVB-S modulation on satellite Galaxy-13, transponder 11, at 127 degrees west longitude, with a downlink frequency of 3920 MHz, vertical polarization, data rate of 38.80 MHz, symbol rate of 28.0681 Mbps, and 3/4 FEC. A Digital Video Broadcast (DVB) compliant Integrated Receiver Decoder (IRD) is needed for reception.**

**Tuning into NASA Television Channels:**
**NTV-1 (Public-Education) HD Program = 101 (NTV-1)**
**Compression Format = MPEG-2, Video PID = 0x112 hex / 274 decimal, AC-3 PID = 0x113 hex / 275 decimal, MPEG I Layer II Audio PID = 0x114 hex / 276 decimal. Also, were providing an un-captioned KU, feed for this event only, on Galaxy 17, Transponder TBD.**

**NTV-3 (Media) HD Program = 103 (NTV-3)**
**Compression Format = MPEG-4, Video PID = 0x1031 hex / 4145 decimal, AC-3 Audio PID = 0x1034 hex /4148 decimal, MPEG I Layer II Audio PID = 0x1035 hex /4149 decimal. Also, were providing a raw feed on the Verizon AVOC. The transmit circuit numbers are 36 TBGS 101315 AVOC TX 1 (for NASA Television Media Channel) and 36 TBGS 101321 AVOC TX 2 (for Telescope feeds from Madras, OR and Carbondale, IL). Media requesting this connection must contact Verizon directly and previously had presence on the AVOC.**

**NASA TV will provide a produced program of coverage of the 2017 Total Eclipse on NTV-1. The programming begins at 12 p.m. EDT with a pre-show hosted from Charleston, SC. That program is followed by the main show which begins at 1 p.m. EDT. The main program will cover of path of the eclipse from Oregon to South Carolina. "The program will feature views from jet aircraft, high-altitude balloons, satellites and specially modified telescopes. It will also include live reports from Salem, Oregon, Idaho Falls, Idaho, Beatrice, Nebraska, Jefferson City, Missouri, Carbondale, Illinois, Hopkinsville, Kentucky, Clarksville, Tennessee and at our home base at the College of Charleston (SC).**

**NOTE – All content is subject to change in real time and without notice.**

**NASA –TV will provide feeds from the following locations on the NASA-TV Media Channel (NTV-3).**

**All times are approximate. All locations subject to change to locate/provide best images.**

| Est Time EDT | Feed | TRT | Content |
|---|---|---|---|
| 11:45:00-12:00:00 | Exploratorium Telescope | 15:00 | Madras, Oregon Telescope Feed |
| 12:00:00-12:05:00 | G-III/AFRC/Salem Remote | 5:00 | Gulfstream Aerials/Oregon Coast |
| 12:05:00-12:30:00 | Exploratorium Telescope | 5:00 | Madras, Oregon Telescope Feed |
| 12:30:00-12:35:00 | G-III VIP Presentation | 5:00 | NASA VIPS- Lightfoot and Zurbuchen discuss Solar Science |
| 12:35:00-12:51:30 | Madras, OR. Telescope Feed | 16:30 | Madras, Oregon Telescope Feed |
| 12:51:30-12:59:30 | NASA Edge/Carbondale Remote | 8:00 | LIVE Balloon Launch from Southern Illinois Stadium |
| 12:59:30-01:04:00 | G-III | 4:30 | Gulfstream Aerials/Oregon Coast |
| 01:04:00- 01:07:00 | Exploratorium Telescope Feed | 3:00 | Madras, Oregon Telescope Feed |
| 01:07:00-01:29:00 | Exploratorium Telescope Feed/G-III | 22:00 | Salem - TOTAL SOLAR ECLIPSE<br>Mixed Feed w/best shots of<br>Gulf Stream Aerials + Madras, Oregon Telescope Feed |
| 01:29:00-01:40:00 | G-III/AFRC/Idaho Falls Remote | 11:00 | Idaho Falls - TOTAL SOLAR ECLIPSE |
| 01:40:00-02:05:00 | Exploratorium Telescope Feed | 25:00 | Madras, Oregon Telescope Feed |
| 02:05:00-02:16:00 | NASA Edge/Carbondale Remote | 11:00 | Carbondale, IL. Telescope Feed |
| 02:16:00–02:24:00 | WB-57 (Jet aircraft) | 8:00 | On board camera will both visible and infrared images |
| 02:24:00-02:35:00 | NASA Edge/Carbondale Remote | 11:00 | Hopkinsville TOTAL SOLAR Eclipse<br>Carbondale, IL. Telescope Feed |
| 02:35:00-TBD | Great Smoky Mountains | TBD | Great Smoky Mountains/Clingsmans Dome Remote |
| TBD-02:55:00 | NASA Edge/Carbondale Remote | TBD | |
| 02:55:00-03:00:00 | NIA Coast Guard Remote | 5:00 | U.S. Coast Guard Footage Balloon Release |
| 03:00:00-03:20:00 | NASA Edge/Carbondale Remote | 20:00 | Carbondale, IL. Telescope Feed |
| 03:20:00-03:40:00 | JSC/ISS Downlink Event | 20:00 | JSC/ISS Downlink Event- Pre-Recorded images |
| 03:40:00-04:00:00 | NASA Edge Carbondale, Remote | 20:00 | Carbondale, IL. Telescope Feed |

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